

PATENT ABSTRACTS OF JAPAN

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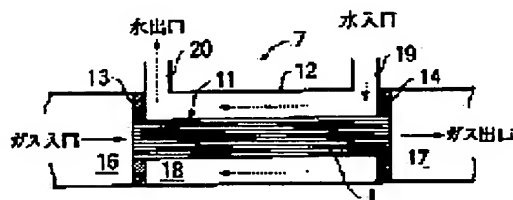
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(54) SUPPLY GAS HUMIDIFIER OF FUEL CELL

(57)Abstract:

PURPOSE: To provide a compact humidifier having high humidifying efficiency.

CONSTITUTION: An inside space of a jacket 12 sandwiched by a pair of partition plates 13 and 14 constitutes a water chamber 18, and an inlet 19 and an outlet 20 of water are formed in positions in close vicinity to the respective partition plates 13 and 14, and cooling water piping is connected, and fuel gas is introduced to an inside space of respective hollow thread films from the side of one partition plate 13 of a hollow thread film bundle 11 supported with a pair of partition plates 13 and 14 of the jacket 12. It flows toward the side of the other partition plate 14, and is guided to the other gas chamber 17, and on the other hand, cooling water is introduced to the inside space 18 of the jacket 12 from the inlet '19 arranged on the side of the partition plate 14 on the gas outlet side, and flows in the opposite direction of the gas flowing direction while indirectly contacting with gas flowing inside of it from outside of the hollow thread films 1, and is discharged from the side of the partition plate 13 on the gas inlet side. The fuel gas is introduced so as to flow in the opposite direction of the cooling water in a humidifier 7, and is humidified by contacting with the cooling water through the hollow thread films.



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